

Fig.1

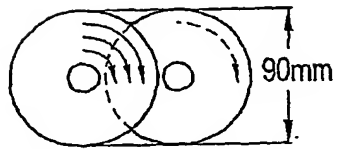


Fig.2

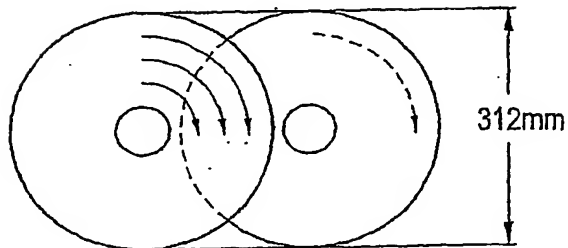
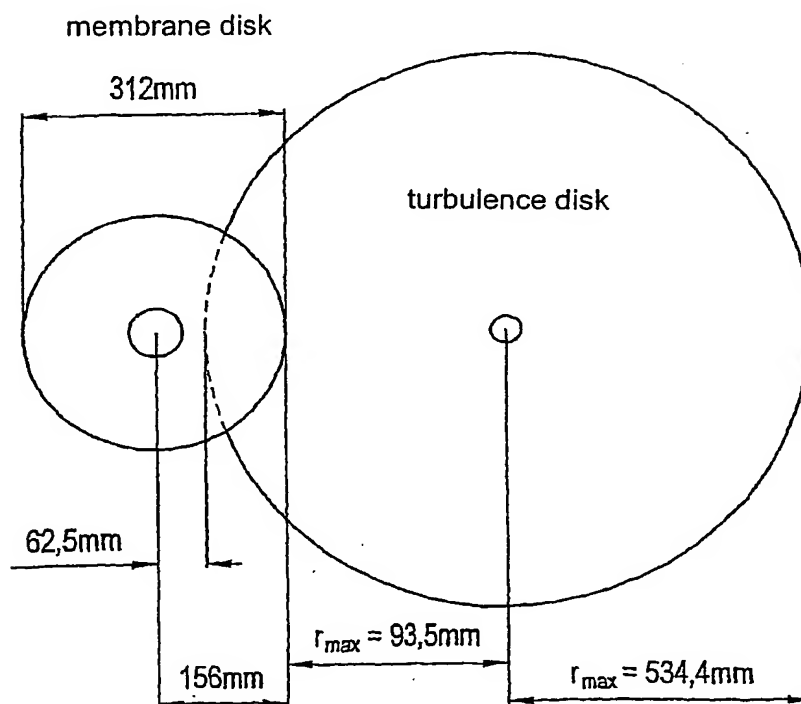


Fig.3



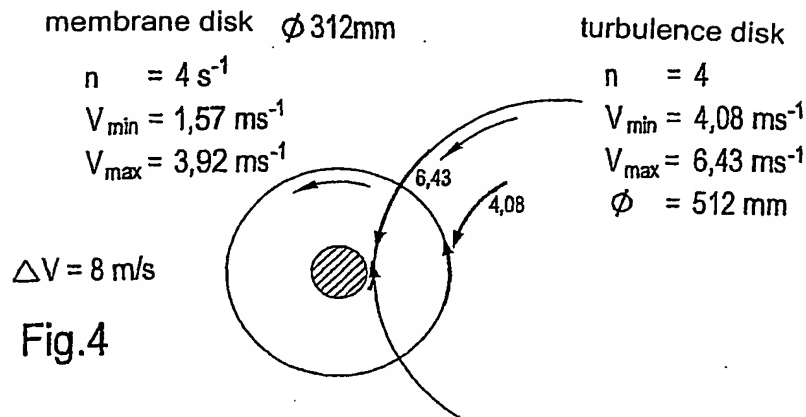


Fig.4

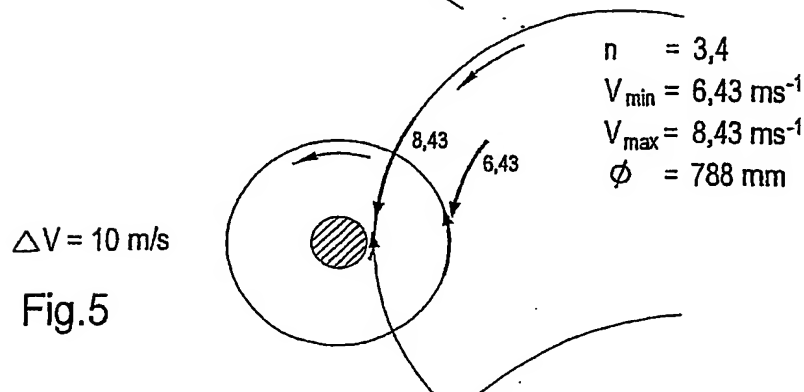


Fig.5

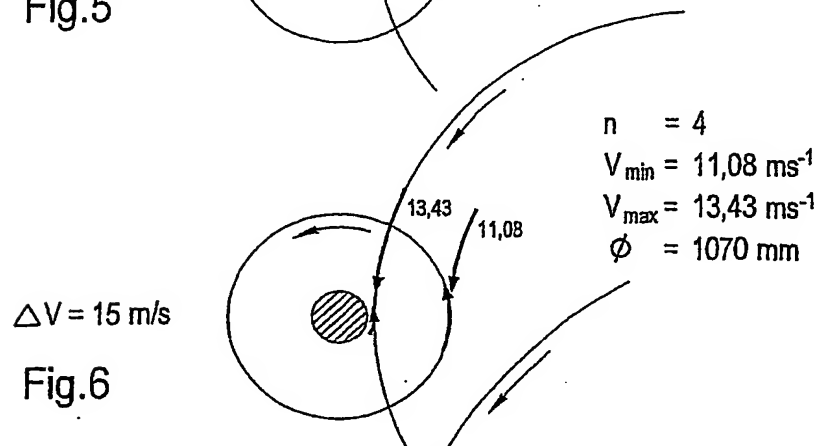


Fig.6

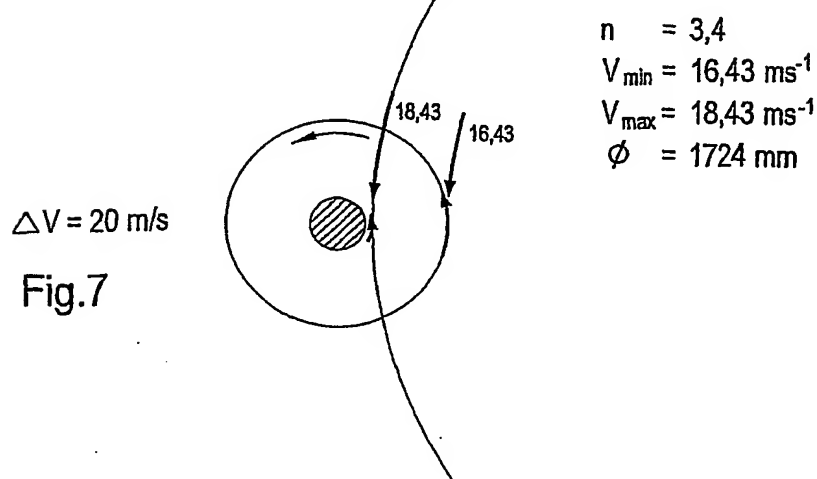


Fig.7

example for practical application

requirements:

$$p_z = 0,15 \text{ bar}$$

$$\Delta V = 10 \text{ ms}^{-1}$$

membrane disk: $\phi = 312 \text{ mm}$

$$n = 4 \text{ s}^{-1}$$

$$V_{\min} = 1,57 \text{ ms}^{-1}$$

$$V_{\max} = 3,92 \text{ ms}^{-1}$$

turbulence disk: $\phi = 671 \text{ mm}$

$$n = 4 \text{ s}^{-1}$$

$$V_{\min} = 6,08 \text{ ms}^{-1}$$

$$V_{\max} = 8,43 \text{ ms}^{-1}$$

Fig.8

top view

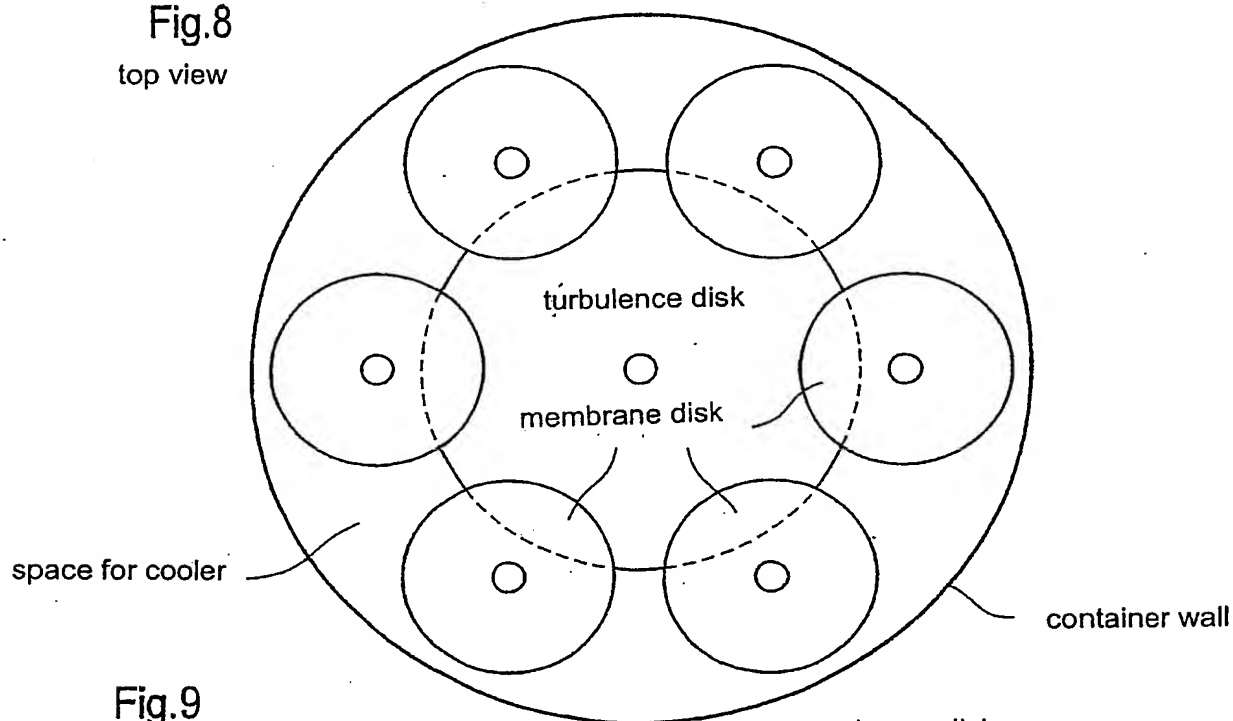


Fig.9

side view

